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PLEASE RETURN TO L&D L&D.

Eny. 8-857

Chief, Operations & Training Division

30 July 1958

Chief, Engineering Division

Transistorized Converter Program

REF : O&T 58-804 dated 3 July 1958

1. Forwarded herewith are three reports which provide comparative evaluations of the CV-1, the [] CV-1, (CV/A-1), the CV-2A, the CV-4A and CV-4B. It was our original intention to send you a finalized report showing the comparative evaluation of all types of transistorized converters under consideration. Because of your recent request of reference we decided that an interim report of the status of this program should be supplied you. Attachment A lists all of the transistorized converters we are considering at the moment together with the present status of each.

25X1

2. You may recall that consideration was given at one time to having the CV-1 produced in [] factory and we asked them to make a carbon copy of our CV-1. This unit was fabricated and is evaluated in one of the attached reports. Although the [] unit appears reasonably satisfactory, we feel that the CV-2A which came about as the result of the availability of a special capacitor [] will be much more suitable for your application. Since the capacitor used in this unit is available only in the U. S. and in fact is now virtually handmade it would appear impracticable for [] to build this unit. We propose, therefore, to continue the transistorized converter program as follows:

25X1

25X1

25X1

25X1

- a) Fabricate ten each CV-2A 3-12 mc converters as requested by your memo 58-315 dated 9 April 1958.
- b) Develop and fabricate four each CV-5 12-30 mc converters (or 3-30 mc if practicable) as requested by the reference.

Based upon satisfactory operational evaluation of the above units, we would then produce in the R&D Laboratory quantities sufficient for your operational usage.

DOCUMENT NO. _____
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 DATE: 3 DEC 1980 REVIEWER: 064540

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3. If you are in agreement with the above program, we suggest that you advise [redacted] that we have no requirement for CV/A-1 converters. If you wish us to fabricate additional units of the CV-2A and CV-5 as a gift [redacted] please advise us as soon as possible since the procurement lead time for the capacitors is quite lengthy.

25X1

25X1

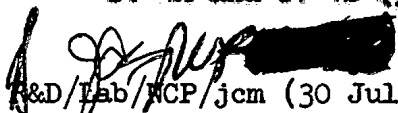


25X1

Attachment

Comparative Evaluations of the CV-1,
the [redacted] CV-1, the CV-2A, the
CV-4A and CV-4B (3 each)

25X1


R&D/Lab/NCP/jcm (30 July 1958)

Distribution: Original and 1 - Addressee
1 - Lab Subject ✓
1 - R&D Chrono
1 - OC-E Chrono
1 - Dev/s

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ATTACHMENT "A"

TRANSISTORIZED CONVERTOR

<u>TYPE</u>	<u>DESCRIPTION</u>	
CV-1	3-6 mc. Converter - R&D Laboratory developed	
CV/A-1 (Also known as [redacted])	3-6 mc. Converter - [redacted]	25X1
CV-2	6-12 mc. - R&D Laboratory developed	
CV-2A	3-12 mc. - R&D Laboratory developed	
CV-4A	3-6 mc. - [redacted] developed	25X1
CV-4B	6-18 mc. [redacted] developed	

Above have only been produced in prototype quantities.

Outstanding requirements:

10 each	CV-2A	3-12 mcs.
4 each	CV-5	12-30 mcs. (or 3-30 mcs. if practicable)

Status:

CV-2A fabrication is stalemated at moment due to capacitor problem. 40% of the special capacitors which permit the wide tuning range have failed. Contractor has come up with new design which is now being tested. Size is larger and will require redesign. Ten units are to be fabricated.

CV-5 - Investigation of feasibility of producing a 3-30 mcs., 2 band converter is under way. If size is too large, a 12-30 mcs. unit of approximate CV-2A size will be investigated and four prototypes produced.

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